

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Previously Presented) A tube having in a radial direction, from inside to the outside, an inner layer comprising a blend of a semicrystalline thermoplastic fluoro-resin and an ABC triblock copolymer with three blocks A, B and C being linked together in this order, each block being either a homopolymer or a copolymer obtained from two or more monomers, the A block being linked to the B block and the B block to the C block by means of a covalent bond or of an intermediate molecule linked to each adjacent block via a covalent bond, wherein:

- the A block is compatible with the fluoro-resin,
- the B block is incompatible with the fluoro-resin and is incompatible with the A block, and
- the C block is incompatible with the fluoro-resin, the A block and the B block.

Claim 2 (Previously Presented) A tube according to claim 1 which is a bilayer tube and comprises an outer layer made of polyamide or of a polyamide/polyolefin blend with a polyamide matrix, the inner layer and the polyamide or the polyamide matrix layer being fastened together.

Claim 3 (Previously Presented) A tube according to claim 1 which is a bilayer tube and comprises an outer layer made of polyamide or of a polyamide/polyolefin blend with a polyamide matrix, the inner layer and the polyamide or the polyamide matrix layer being fastened together by the addition of a functional acrylic compound to the blend of the inner layer.

Claim 4 (Previously Presented) A tube according to claim 1 which is a trilayer tube and comprises an outer layer made of polyamide or of a polyamide/polyolefin blend with a polyamide matrix, the inner layer and the polyamide or the polyamide matrix layer being fastened together by an adhesion binder placed between them.

Claim 5 (Previously Presented) A tube according to claim 1 which is a multilayer tube and comprises a layer made of polyamide or of a polyamide/polyolefin blend with a polyamide matrix, the inner layer and the polyamide or the polyamide matrix layer being fastened together by a succession of intermediate layers, each of which is fastened to its adjacent layers.

Claim 6 (Previously Presented) A tube according to claim 1 wherein the ABC triblock copolymer contains, as by-products of its synthesis, a BC diblock copolymer and optionally A homopolymer.

Claim 7 (Previously Presented) A tube according claim 1 wherein the ABC triblock copolymer contains, as by-products of its synthesis, an AB diblock copolymer and optionally A homopolymer.

Claim 8 (Previously Presented) A tube according to claim 1 wherein the inner layer contains a dispersed electrically conductive carbon black filler in an amount sufficient to give this inner layer a surface resistivity of less than or equal to $10^9 \Omega/\square$.

Claim 9 (Currently Amended) A tube according to claim 1 wherein the semicrystalline thermoplastic fluororesin and ABC triblock copolymer blend contains at least 50% by weight of semicrystalline thermoplastic fluororesin and the balance (to 100%) by weight of the triblock copolymer of number-average molecular mass (M_n) greater than or equal to 20,000 g.mol⁻¹, the percentages being calculated with respect to the total weight of fluororesin

with the block copolymer without taking into account in these percentages the optional presence of other additives, said triblock copolymer

consisting of:

- 20 to 93 parts by weight of A blocks,
- 5 to 68 parts by weight of B blocks,
- 2 to 65 parts by weight of C blocks based on the weight of the triblock copolymer.

Claim 10 (Previously Presented) A tube according to claim 1 wherein the fluororesin is

- a homopolymer or copolymer of vinylidene fluoride (VF2) and at least one other fluoromonomer;
- homopolymers and copolymers of trifluoroethylene (VF3); or
- copolymers or terpolymers of chlorotrifluoroethylene (CTFE), tetrafluoroethylene (TFE) or hexafluoropropylene (HFP) units and/or ethylene, and optionally VF2 and/or VF3 units.

Claim 11 (Previously Presented) A tube according to claim 10 wherein the fluororesin is poly(vinylidene fluoride) (PVDF).

Claim 12 (Previously Presented) A tube according to claim 1 wherein the B block has a glass transition temperature $T_{g(B)}$, measured by differential thermal analysis, of -100°C to -50°C.

Claim 13 (Previously Presented) A tube according to claim 1 wherein the B block is a polydiene.

Claim 14 (Previously Presented) A tube according to claim 1, wherein the C block has a glass transition temperature $T_{g(C)}$ or a melting point $T_{m(C)}$ greater than the $T_{g(B)}$ of the B block.

Claim 15 (Previously Presented) A tube having in a radial direction, from inside to the outside, an inner layer comprising a blend of a semicrystalline thermoplastic fluororesin and an ABC triblock copolymer with three blocks A, B and C being linked together in this order, each block being either a homopolymer or a copolymer obtained from two or more monomers, the A block being linked to the B block and the B block to the C block by means of a covalent bond or of an intermediate molecule linked to each adjacent block via a covalent bond, wherein:

- the A block is compatible with the fluororesin,
- the B block is incompatible with the fluororesin and is incompatible with the A block, and
- the C block is incompatible with the fluororesin, the A block and the B block, and wherein the A block is a homopolymer or copolymer of an alkyl (alkyl) acrylate.

Claim 16 (Previously Presented) A tube according to claim 15 wherein the A block is poly(methyl methacrylate) (PMMA).

Claim 17 (Previously Presented) A tube according to claim 16, wherein the PMMA is syndiotactic and its glass transition temperature $T_{g(A)}$, measured by differential thermal analysis, is from + 120°C to + 140°C.

Claim 18 (Previously Presented) A tube according to claim 15 wherein the ABC triblock copolymer is poly(methyl methacrylate-*b*-butadiene-*b*-styrene).

Claim 19 (Currently Amended) A quadrilayer tube according to claim 1 having the layers, from the outside to the inside, of :
PA, binder, fluoropolymer, fluoropolymer plus [[+]] ABC triblock plus [[+]] electrically conductive carbon black.

Claim 20 (Currently Amended) A quadrilayer tube according to claim 1, having the layers, from the outside to the inside,

PA, binder, fluoropolymer plus [[+]] ABC triblock, fluoropolymer plus [[+]] ABC triblock plus [[+]] electrically conductive carbon black.

Claim 21 (Previously Presented) A tube according to claim 10, wherein the fluoro-resin is a homopolymer or copolymer of VF2 and at least one of chlorotrifluoroethylene (CTFE), hexafluoropropylene (HFP), trifluoroethylene (VF3) or tetrafluoroethylene (TFE).

Claim 22 (Previously Presented) A tube according to claim 13, wherein the B block is polybutadiene, polyisoprene or a random copolymer thereof optionally partially or completely hydrogenated.

Claim 23 (Previously Presented) A tube according to claim 15, wherein the A block is a homopolymer or copolymer of methyl methacrylate (MMA) and/or methyl or ethyl acrylate and/or vinyl acetate.

Claim 24 (Previously Presented) A tube according to claim 15, wherein the fluoro-resin is

- a homopolymer or copolymer of vinylidene fluoride (VF2) and at least one other fluoromonomer;
- homopolymers and copolymers of trifluoroethylene (VF3); or
- copolymers or terpolymers of chlorotrifluoroethylene (CTFE), tetrafluoroethylene (TFE) or hexafluoropropylene (HFP) units and/or ethylene, and optionally VF2 and/or VF3 units.